

Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
41: Sparta-----	95	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.28	Very limited Filtering capacity Droughty	1.00 0.28	Very limited Filtering capacity Droughty	1.00 0.28
41B: Sparta-----	95	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.28	Very limited Filtering capacity Droughty	1.00 0.28	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.28 0.08
41D: Sparta-----	95	Very limited Filtering capacity Leaching limitation Droughty Slope	1.00 0.45 0.28 0.16	Very limited Filtering capacity Droughty Slope	1.00 0.28 0.16	Very limited Too steep for surface application Filtering capacity Too steep for sprinkler application Droughty	1.00 1.00 0.39 0.28
51B: Vesser-----	100	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding Too steep for surface application	1.00 0.60 0.08
63B: Chelsea-----	95	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Filtering capacity Droughty	1.00 0.43	Very limited Filtering capacity Droughty	1.00 0.43

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
63C: Chelsea-----	95	Droughty	0.43			Too steep for surface application	0.01
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.43	Too steep for surface application	0.91
		Droughty	0.43			Droughty Too steep for sprinkler application	0.43 0.02
63D: Chelsea-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Leaching limitation	0.45	Droughty	0.43	Too steep for sprinkler application	0.77
		Droughty	0.43			Droughty	0.43
63E: Chelsea-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Leaching limitation	0.45	Droughty	0.43	Filtering capacity	1.00
		Droughty	0.43			Droughty	0.43
63G: Chelsea-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65D2: Lindley-----	100	Leaching limitation	0.45	Droughty	0.43	Filtering capacity	1.00
		Droughty	0.43			Droughty	0.43
		Somewhat limited		Somewhat limited		Very limited	
		Restricted permeability	0.30	Too acid	0.31	Too steep for surface application	1.00
		Slope	0.16	Restricted permeability	0.22	Too steep for sprinkler application	0.39
65E2: Lindley-----	100	Too acid	0.08	Slope	0.16	Too acid	0.31
						Restricted permeability	0.22
		Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
65F: Lindley-----	90	Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
65G: Lindley-----	90	Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
118: Garwin-----	95	Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
119: Muscatine-----	90	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
120B: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.08
						Too acid	0.07
120B2: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.08
						Too acid	0.07
120C: Tama-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too acid	0.07
120C2: Tama-----	100	Somewhat limited		Somewhat limited		Too steep for sprinkler application	0.02
						Somewhat limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120C3: Tama-----	100	Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
120D2: Tama-----	100	Somewhat limited		Somewhat limited		Somewhat limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
120D3: Tama-----	100	Somewhat limited		Somewhat limited		Too steep for sprinkler application	0.02
		Slope	0.63	Slope	0.63	Very limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	1.00
122: Sperry-----	100					Too steep for sprinkler application	0.77
						Too acid	0.07
		Somewhat limited		Somewhat limited			
122: Sperry-----	100	Slope	0.63	Slope	0.63	Very limited	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
122: Sperry-----	100	Very limited		Very limited		Too acid	0.07
		Restricted permeability	1.00	Depth to saturated zone	1.00	Very limited	
		Depth to saturated zone	1.00	Restricted permeability	1.00	Depth to saturated zone	1.00
122: Sperry-----	100	Leaching limitation	0.50			Restricted permeability	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
133: Colo-----	95	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
133B: Colo-----	95	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding Too steep for surface application	1.00 0.60 0.08
135B: Coland-----	100	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding Too steep for surface application	1.00 0.60 0.08
136: Ankeny-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
139: Perks-----	90	Very limited Flooding Droughty Filtering capacity Leaching limitation Too acid	1.00 1.00 1.00 0.45 0.03	Very limited Droughty Flooding Filtering capacity Too acid	1.00 1.00 1.00 0.14	Very limited Droughty Flooding Filtering capacity Too acid	1.00 1.00 1.00 0.14
141: Watseka-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
152: Marshan-----	90	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Droughty	0.10	Droughty	0.10	Droughty	0.10
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity Leaching limitation	1.00 0.70	Filtering capacity	1.00	Filtering capacity	1.00
160: Walford-----	95	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
162B: Downs-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08 0.07
162C: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.91 0.07
						Too steep for sprinkler application	0.02
162C2: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.91 0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
162C3: Downs-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Too steep for sprinkler application	0.02
						Somewhat limited Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
162D2: Downs-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
						Too acid	0.07
162D3: Downs-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
						Too acid	0.07
163B: Fayette-----	95	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.08
						Too acid	0.07
163C: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too acid	0.07

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163C2: Fayette-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Too steep for sprinkler application	0.02
						Somewhat limited Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
163D: Fayette-----	100	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
						Too acid	0.07
163D2: Fayette-----	100	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
						Too acid	0.07
163E: Fayette-----	95	Very limited Slope Too acid	1.00 0.02	Very limited Slope Too acid	1.00 0.07	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
						Too acid	0.07
163E2: Fayette-----	100	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163F: Fayette-----	90	Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
163G: Fayette-----	100	Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
164: Traer-----	95					Too acid	0.07
		Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.70	Too acid	0.31	Too acid	0.31
165: Stronghurst-----	95	Too acid	0.08				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
173: Hoopeston-----	95	Too acid	0.02	Too acid	0.07	Too acid	0.07
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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174: Bolan-----	90	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
174B: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
175: Dickinson-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
175B: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	0.08
175C: Dickinson-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	0.02
179D2: Gara-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
179F: Gara-----	95	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.77 0.22
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	1.00 0.22
212: Kennebec-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
249B: Zwingle-----	100	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for surface application	0.66
		Too acid	0.08			Too acid Too steep for sprinkler application	0.31 0.01
291: Atterberry-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
291B: Atterberry-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08

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293G: Chelsea-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Too steep for sprinkler application	1.00
		Droughty	0.53	Droughty	0.53	Filtering capacity	1.00
		Leaching limitation	0.45			Droughty	0.53
Fayette-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
313G: Gosport-----	90	Very limited Slope	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Restricted permeability	1.00	Slope	1.00	Too steep for surface application	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Too steep for sprinkler application	1.00
		Droughty	0.77	Droughty	0.77	Depth to saturated zone	0.95
		Depth to bedrock	0.46	Low adsorption	0.65	Droughty	0.77
315: Aquolls-----	90	Not rated		Not rated		Not rated	
352B: Whittier-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
352C: Whittier-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Too steep for surface application	0.08
						Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
352C2: Whittier-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
352D2: Whittier-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
450B: Pillot-----	95	Not limited		Not limited		Very limited Too steep for surface application	1.00
						Filtering capacity	1.00
						Too steep for sprinkler application	0.77
450C2: Pillot-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
467: Radford-----	98	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Too steep for sprinkler application	0.02
						Very limited Depth to saturated zone Flooding	1.00 0.60
467B: Radford-----	98	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
						Too steep for surface application	0.08
479G: Gale-----	90	Very limited Slope Filtering capacity Depth to bedrock Too acid	1.00 1.00 0.46 0.02	Very limited Slope Filtering capacity Depth to bedrock Too acid	1.00 1.00 0.46 0.07	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
						Filtering capacity	1.00
						Depth to bedrock	0.46
						Too acid	0.07
480C2: Orwood-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
480D2: Orwood-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
480F2: Orwood-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Too steep for sprinkler application	0.77
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
481D2: Russell-----	95	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.59
						Too acid	0.07
481E2: Russell-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
						Too acid	0.07
485: Spillville-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
485B: Spillville-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
488C2: Newvienna-----	90	Somewhat limited Depth to saturated zone	0.24	Somewhat limited Depth to saturated zone	0.24	Somewhat limited Too steep for surface application	0.91

Agricultural Waste Management

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
488C3: Newvienna-----	100	Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.24
						Too acid	0.07
						Too steep for sprinkler application	0.02
488D2: Newvienna-----	95	Somewhat limited Depth to saturated zone	0.24	Somewhat limited Depth to saturated zone	0.24	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.24
						Too acid	0.07
488D3: Newvienna-----	100					Too steep for sprinkler application	0.02
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
490: Caneek-----	95	Depth to saturated zone	0.24	Depth to saturated zone	0.24	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.24
						Too acid	0.07
488D3: Newvienna-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
						Too steep for surface application	1.00
		Depth to saturated zone	0.24	Depth to saturated zone	0.24	Too steep for sprinkler application	0.77
490: Caneek-----	95	Too acid	0.02	Too acid	0.07	Depth to saturated zone	0.24
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Too acid	0.07
						Very limited Depth to saturated zone	1.00

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
539: Perks-----	85	Very limited Droughty Filtering capacity Flooding Leaching limitation Too acid	1.00 1.00 0.60 0.45 0.03	Very limited Droughty Flooding Filtering capacity Too acid	1.00 1.00 1.00 0.14	Very limited Droughty Filtering capacity Flooding Too acid	1.00 1.00 0.60 0.14
566B: Moingona-----	95	Very limited Depth to dense layer	1.00	Not limited		Somewhat limited Too steep for surface application	0.08
566C: Moingona-----	95	Very limited Depth to dense layer	1.00	Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
567B: Moingona Variant----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
623C2: Rozetta-----	100	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid Too steep for sprinkler application	0.91 0.07 0.02
623D2: Rozetta-----	100	Somewhat limited		Somewhat limited		Very limited	

Agricultural Waste Management

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
653: Tuskeego-----	95	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
680G: Lindley-----	50	Too acid	0.02				
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
Douds-----	20					Restricted permeability	0.22
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
Orwood-----	20					Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
684: Elrick-----	90	Very limited Filtering capacity Droughty	1.00 0.65	Very limited Filtering capacity Droughty Flooding	1.00 0.65 0.40	Too steep for sprinkler application	1.00
						Very limited Filtering capacity	1.00
						Droughty	0.65
727: Udolpho-----	100	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
753B: Thebes-----	95	Very limited Filtering capacity Too acid	1.00 0.03	Very limited Filtering capacity Too acid	1.00 0.14	Very limited Filtering capacity Too acid Too steep for surface application	1.00 0.14 0.08
753C: Thebes-----	95	Very limited Filtering capacity Too acid	1.00 0.03	Very limited Filtering capacity Too acid	1.00 0.14	Very limited Filtering capacity Too steep for surface application Too acid Too steep for sprinkler application	1.00 0.91 0.14 0.02
753C2: Thebes-----	95	Very limited Filtering capacity Too acid	1.00 0.03	Very limited Filtering capacity Too acid	1.00 0.14	Very limited Filtering capacity Too steep for surface application	1.00 0.91

Agricultural Waste Management

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
753D2: Thebes-----	95					Too acid Too steep for sprinkler application	0.14 0.02
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity	1.00
		Too acid	0.03	Too acid	0.14	Too steep for sprinkler application Too acid	0.77 0.14
759: Fruitfield-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Leaching limitation	0.45	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
759B: Fruitfield-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Leaching limitation	0.45	Too acid	0.07	Too steep for surface application	0.08
		Too acid	0.02			Too acid	0.07
763E3: Exette-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
763F3: Exette-----	100	Very limited		Very limited		Very limited	

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
771C2: Waubee-----	95	Slope	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
		Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.91
771D2: Waubee-----	100					Too steep for sprinkler application	0.02
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited	
793: Bertrand-----	100					Too steep for surface application	1.00
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Too steep for sprinkler application	0.77
826: Rowley-----	90					Very limited Filtering capacity	1.00
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00		
916B: Downs-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Very limited Filtering capacity	1.00
						Depth to saturated zone	1.00
916B2: Downs-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited	
		Too acid	0.02	Too acid	0.07	Filtering capacity	1.00
916B2: Downs-----	95					Too steep for surface application	0.08
		Very limited		Very limited		Too acid	0.07

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
916C: Downs-----	100	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
916C2: Downs-----	95					Too acid	0.07
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
917B: Fayette-----	95					Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07
917C: Fayette-----	100	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
917C2: Fayette-----	95	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Too steep for sprinkler application	0.02
						Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too acid Too steep for sprinkler application	0.07 0.02
917D2: Fayette-----	95	Very limited Filtering capacity Slope Too acid	1.00 0.63 0.02	Very limited Filtering capacity Slope Too acid	1.00 0.63 0.07	Very limited Too steep for surface application	1.00
						Filtering capacity	1.00
						Too steep for sprinkler application	0.77
						Too acid	0.07
920B: Tama-----	95	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
						Too acid	0.07
920B2: Tama-----	95	Very limited Filtering capacity Too acid	1.00 0.02	Very limited Filtering capacity Too acid	1.00 0.07	Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
						Too acid	0.07
920C: Tama-----	100	Very limited		Very limited		Very limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
920C2: Tama-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
920C3: Tama-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.91
						Too acid	0.07
						Too steep for sprinkler application	0.02
925: Toolesboro-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Droughty	0.01	Droughty	0.01	Droughty	0.01
930: Orion-----	95	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00

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Muscatine County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
960: Shaffton-----	95	Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
		Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Filtering	1.00	Filtering	1.00	Filtering	1.00
		capacity		capacity		capacity	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
961: Ambraw-----	98	Too acid	0.02	Too acid	0.07	Too acid	0.07
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Filtering	1.00	Filtering	1.00	Filtering	1.00
		capacity		capacity		capacity	
963: Elvers-----	90	Leaching limitation	0.70				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Leaching	0.70				
		limitation					
977: Richwood-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
977B2: Richwood-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.01
1043: Bremer-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Filtering capacity Restricted permeability	1.00 0.30	Filtering capacity Restricted permeability	1.00 0.22	Filtering capacity Restricted permeability	1.00 0.22
1212: Kennebec-----	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
1490: Caneek-----	98	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
1520: Coppock-----	95	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
1621: Houghton-----	100	Very limited Depth to saturated zone Low adsorption Runoff limitation	1.00 1.00 0.40	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone Low adsorption	1.00 1.00
1926: Canoe-----	90	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
2221: Palms-----	95	Very limited Depth to saturated zone Low adsorption Leaching limitation	1.00 1.00 0.90	Very limited Depth to saturated zone Low adsorption	1.00 1.00	Very limited Depth to saturated zone Low adsorption	1.00 1.00
2226: Elrin-----	90	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too acid	0.07
2490: Caneek Variant-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
2587: Dolbee-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
2636: Radford-----	50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Hanlon-----	30	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
3133: Colo-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
3134: Zook-----	90	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50				
3135: Coland-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
3960: Shaffton-----	95	Very limited		Very limited		Very limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3961: Ambraw-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.02	Too acid	0.07	Too acid	0.07
4160: Walford-----	75	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
Urban Land-----	25	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
4162C: Downs-----	50	Not rated		Not rated		Not rated	
		Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too acid Too steep for sprinkler application	0.07 0.02
Urban Land-----	45	Not rated		Not rated		Not rated	
4163D: Fayette-----	50	Somewhat limited		Somewhat limited		Very limited	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	45	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07
Urban Land-----	45	Not rated		Not rated		Not rated	
4636: Radford-----	50	Very limited		Very limited		Very limited	
		Depth to	1.00	Flooding	1.00	Depth to	1.00
		saturated zone	0.60	Depth to	1.00	saturated zone	0.60
Urban Land-----	45	Not rated		Not rated		Not rated	
4759: Fruitfield-----	45	Very limited		Very limited		Very limited	
		Filtering	1.00	Droughty	1.00	Droughty	1.00
		capacity		Filtering	1.00	capacity	
		Droughty	1.00	capacity		Too acid	0.07
Urban Land-----	45	Leaching	0.45	Too acid	0.07		
		limitation					
		Too acid	0.02				
Urban Land-----	45	Not rated		Not rated		Not rated	
4960: Shaffton-----	50	Very limited		Very limited		Very limited	
		Filtering	1.00	Filtering	1.00	Filtering	1.00
		capacity		capacity		capacity	
		Depth to	0.43	Depth to	0.43	Depth to	0.43
Urban Land-----	40	saturated zone		saturated zone		saturated zone	
		Too acid	0.02	Too acid	0.07	Too acid	0.07
Urban Land-----	40	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
4977B: Richwood-----	50	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
Urban Land-----	40	Not rated		Not rated		Not rated	
5010: Pits-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	